CLAIMS

- 1. A heat exchanger comprising plates having a pattern of grooves, and inlet and outlet connections, placed so as to form a pack and brazed together so as to
- form separate channels for two media between alternating pairs of plates, charac-
- a terised by a separation zone (14), having a blocked-off space (15), formed by a
- Observer of valleys and peaks (3,8) in contact with each other in alternate pairs of
- A plates at a distance from the connections (456), the brazing at the edges of the
- \bigcirc plates and the brazing at the connections (4,6), which blocked-off space (4.5)
- cannot be reached by any one of the media except during leakage, in such a way that the medium which is not to reach and flow through the respective connection
- \bigcirc is blocked at the barrier \bigcirc between one pair of plates, whereas the other
- medium can flow through the separation zone (14) in adjacent channels in
- Osurrounding pairs of plates and on through the respective connection (1,6); and by a leakage vent (2, 7) from the blocked-off space (15) to the exterior.
 - 2. A heat exchanger according to claims 1 or 2, characterised by the blocked-
 - α off space being formed by a separation groove (3, 8), running at a distance from each connection and separating the connection towards the respective corner.
 - 3. A heat exchanger according to claims 1-or-2, characterised by the leakage
 - 20 vent-(2, 7) consisting of holes, arranged in rotational symmetry, through the plates, such that the holes register when turning every other plate 180°.
 - \bigcirc 4. A heat exchanger according to claim 3, characterised by the holes (2, 7)being located at an angle of 45°, centred between the edges of the plates.
 - 5. A heat exchanger according to claim 3, characterised by the hole being
 - located close to one edge of the plates.

 6. A heat exchanger according to any one of the preceding claims, characterised by a sensor for detecting leakage being located in one or more blocked-off spaces.
 - spaces.

 7. A heat exchanger according to any one of claims 1-6, characterised by a pipe running from one or more closed-off spaces, said pipe being connected to a sensor for detecting leakage.
 - 8. A heat exchanger according to claim 7, characterised by several pipes being connected to a common sensor.
 - 9. A heat exchanger according to any one of claims 6-8, characterised by said sensor(s) being connected to a security system.